

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for ALPHA-PHELLANDRENE

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus globulus	Shoot		3000.0	7.3085148477973965	--
Anethum graveolens	Leaf	20.0	8025.0	5.376830730634647	--
Murraya koenigii	Leaf	23.0	6240.0	4.110948296184419	--
Foeniculum vulgare	Essential Oil	1000.0	198000.0	3.2393816351437663	Jim Duke's personal files.
Foeniculum vulgare	Fruit	44.0	6600.0	2.750681954647649	--
Eupatorium triplinerve	Plant		535.0	2.5590918591502247	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Thymus vulgaris	Plant	50.0	425.0	1.7924573974319133	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Angelica archangelica	Leaf Essent. Oil		678000.0	1.751978121762097	--
Anethum graveolens	Seed	125.0	7469.0	1.5339306210630879	--
Eucalyptus dealbata	Shoot		695.0	1.4554568214798744	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Anethum graveolens	Shoot Essent. Oil	248800.0	525100.0	1.4141949197576593	--
Curcuma longa	Leaf		2325.0	1.3345170744070258	--
Foeniculum vulgare	Seed	44.0	6600.0	1.2462875979297328	--
Myristica fragrans	Seed Essent. Oil	4000.0	10000.0	1.1900603576383573	--
Laurus nobilis	Fruit Essent. Oil		100700.0	1.1856174256264056	--
Satureja montana	Plant	1.0	325.0	1.0955169776879943	--
Eucalyptus sideroxylon	Shoot		530.0	1.0364743597261254	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Lindera benzoin	Fruit	2300.0	3135.0	1.0038352969550377	--
Curcuma longa	Rhizome		1945.0	1.0	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Sideritis mugronensis</i>	Flower	35.0	270.0	1.0	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of <i>Sideritis mugronensis</i> Flower and Leaf. <i>J. Ess. Oil Res.</i> , 3: 395-397.
<i>Hyptis suaveolens</i>	Plant		285.0	0.8167408097904264	Recently became <i>Internat. J. Crude Drug Res.</i> 28(1,2,3,4):1990, page 74.
<i>Eucalyptus sparsa</i>	Leaf		1555.0	0.7884501418990839	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Sympyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Prunella vulgaris</i>	Plant		280.0	0.7818937888032305	--
<i>Cuminum cyminum</i>	Seed Essent. Oil		8400.0	0.7805772238273097	--
<i>Pycnanthemum tenuifolium</i>	Shoot	2.0	420.0	0.7571527185569595	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Eucalyptus globulus</i>	Fruit Essent. Oil		83000.0	0.7081332746915394	--
<i>Eucalyptus polyanthemos</i>	Shoot		365.0	0.6174918979723765	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Origanum vulgare</i>	Plant	2.0	244.0	0.5309952376954196	--
<i>Eucalyptus globulus</i>	Leaf Essent. Oil	1000.0	343000.0	0.46075475134298666	--
<i>Apium graveolens</i>	Fruit		2000.0	0.431635886715178	--
<i>Pimenta racemosa</i>	Leaf	0.0	950.0	0.35939755207141527	--
<i>Eucalyptus porosa</i>	Leaf		865.0	0.29911743614521386	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Sympyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Cistus ladaniferus</i>	Plant	3.0	210.0	0.294035494982487	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Eucalyptus camaldulensis</i>	Shoot		225.0	0.261991627393438	Zrira, S. S., Benjlalil, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Rosmarinus x lavandulaceus</i>	Shoot	13.0	220.0	0.24929518915847595	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
<i>Eucalyptus oviformis</i>	Shoot		180.0	0.14772368327877924	Zrira, S. S., Benjlalil, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Canarium indicum</i>	Essential Oil	15100.0	37750.0	0.1376349678224283	--
<i>Eucalyptus melliodora</i>	Shoot		170.0	0.12233080680885507	Zrira, S. S., Benjlalil, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Rosmarinus eriocalyx</i>	Shoot	44.0	150.0	0.07154505386900671	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
<i>Rosmarinus eriocalyx</i>	Shoot	44.0	150.0	0.07154505386900671	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
<i>Melaleuca bracteata</i>	Leaf	120.0	500.0	0.04026752657976088	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Rosmarinus officinalis</i>	Shoot	50.0	125.0	0.008062862694196265	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus punctata	Shoot		125.0	0.008062862694196265	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus bosistoana	Shoot		120.0	-0.004633575540765823	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Hyssopus officinalis	Leaf	5.0	320.0	-0.08738448361690086	--
Origanum majorana	Essential Oil		26000.0	-0.08979419499208481	--
Eucalyptus cladocalyx	Shoot		80.0	-0.10620508142046267	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus forrestiana	Leaf		285.0	-0.11220570782180732	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Symphyomyrtus,Section Dumaria, Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Mentha x rotundifolia	Leaf	16.0	280.0	-0.1157515969939368	--
Satureja thymbra	Shoot		75.0	-0.11890151965542477	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23.
Origanum vulgare	Essential Oil		24400.0	-0.12076327248172064	--
Satureja obovata	Leaf		265.0	-0.12638926451032528	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Satureja obovata	Leaf		265.0	-0.12638926451032528	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Boswellia sacra	Essential Oil		24000.0	-0.1285055418541296	--
Mentha longifolia	Shoot	11.0	70.0	-0.13159795789038686	Planta Medica, 57: A83, 1991.
Satureja obovata	Leaf		220.0	-0.15830226705949071	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Eucalyptus incrassata	Leaf		205.0	-0.1689399345758792	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Sympyomyrtus,Section Dumarria, Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Rosmarinus officinalis	Shoot		50.0	-0.18238371083023522	Tucker, A. O. and Maciarelllo, M. J. 1998. The essential oils of some rosemary cultivars. Flavor and Fragrance Journal, 1: 137-142. 1986.
Rosmarinus officinalis	Shoot	19.0	50.0	-0.18238371083023522	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Eucalyptus maidenii	Shoot		45.0	-0.1950801490651973	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Origanum onites	Shoot		45.0	-0.1950801490651973	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. Flav. & Frag. J. 8: 331-7.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Origanum onites	Shoot		45.0	-0.1950801490651973	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. <i>Flav. &amp; Frag. J.</i> 8: 331-7.
Origanum vulgare	Shoot		45.0	-0.1950801490651973	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. <i>Z. Lebensm Unters Forsch</i> 197: 20-23.
Eucalyptus blakelyi	Shoot		40.0	-0.20777658730015938	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
Origanum syriacum	Shoot		40.0	-0.20777658730015938	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of <i>Origanum syriacum</i> L. <i>Essential Oil. J. Ess. Oil Res.</i> 3: 121-123.
Melaleuca alternifolia	Essential Oil		19000.0	-0.22528390900924156	--
Foeniculum vulgare	Plant		135.0	-0.22866981982545245	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Laurus nobilis	Leaf	0.0	120.0	-0.22922005050208058	--
Eucalyptus maculata	Shoot		30.0	-0.23316946377008357	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
Satureja obovata	Shoot	1.0	30.0	-0.23316946377008357	Fitoterapia No.60: 277.
Eucalyptus tetraptera	Leaf		110.0	-0.23631182884633958	Bignell,C.M.,Dunlop,P.J.,Brophy,J. J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> .Part I.Subgenus <i>Sympyomyrtus</i> ,Section <i>Dumaria</i> ,Series <i>Incrassatae</i> . <i>Flavour and Fragrance J.</i> 9(3):113-7

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus dolichorhyncha	Leaf		105.0	-0.23985771801846906	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Sympyomyrtus,Section Dumaria, Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Rosmarinus officinalis	Plant	0.1	133.0	-0.24260862822033083	--
Sideritis pauli	Shoot		26.0	-0.24332661435805322	Burzaco, A., Velasco-Negueruela, A. and Perez-Alonso, M.J. 1992. Essential Oil Analysis of Sideritis pauli Pau. FFJ7: 47-8. 1992.
Eucalyptus albens	Shoot		25.0	-0.24586590200504566	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Thymus riatarum	Shoot		25.0	-0.24586590200504566	Iglesias, J., Vila, R., Canigueral, S., Bellakdhar, and II Idrissi, A. 1991. Analysis of the Essential Oil of Thymus riatarum. J. Ess. Oil Res. 3: 43-4.
Eucalyptus tereticornis	Shoot		25.0	-0.24586590200504566	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus diversicolor	Shoot		25.0	-0.24586590200504566	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Rosmarinus x mendizabalii	Shoot	4.0	22.0	-0.2534837649460229	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Pelargonium citrosum	Shoot		22.0	-0.2534837649460229	Matsuda, B. M., et al. 1996. Essential Oil Analysis and Field Evaluation of the Citrosa Plant 'Pelargonium citrosum' as a Repellent Against Populations of Aedes Mosquitoes. J. Am. Mosq. Contr. Assoc. 12(1):69-74.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Coridothymus capitatus	Shoot		22.0	-0.2534837649460229	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23.
Eucalyptus melanophloia	Leaf		80.0	-0.2575871638791165	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Acinos alpinus	Shoot		18.0	-0.26364091553399255	Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of <i>Acinus alpinus</i> (L.) Moench ssp. <i>meridionalis</i> (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
Acinos alpinus	Shoot		18.0	-0.26364091553399255	Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of <i>Acinus alpinus</i> (L.) Moench ssp. <i>meridionalis</i> (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
Pimenta dioica	Leaf		59.0	-0.2724798984020604	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Melaleuca alternifolia	Leaf	10.0	50.0	-0.27886249891189346	--
Eucalyptus saligna	Shoot		12.0	-0.2788766414159471	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Origanum syriacum	Shoot		12.0	-0.2788766414159471	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of <i>Origanum syriacum</i> L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum syriacum	Shoot		12.0	-0.2788766414159471	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of <i>Origanum syriacum</i> L. Essential Oil. J. Ess. Oil Res. 3: 121-123.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus siderophloia	Shoot		11.0	-0.2814159290629395	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Myristica fragrans	Essential Oil	7000.0	16000.0	-0.28335092930230876	--
Rosmarinus tomentosus	Shoot	0.1	10.0	-0.2839552167099319	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Myrtus communis	Shoot	1.0	10.0	-0.2839552167099319	--
Thymus capitatus	Shoot		7.0	-0.2915730796509092	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. Flav. & Frag. J. 8: 331-7.
Ocimum gratissimum	Plant	10.0	125.0	-0.29836386179984437	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Eucalyptus fasciculosa	Leaf		22.0	-0.29871947827581863	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus leucoxylon	Leaf		22.0	-0.29871947827581863	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus stoatei	Leaf		21.0	-0.29942865611024455	Bignell,C.M.,Dunlop,P.J.,Brophy,J. J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Sympyomyrtus,Section Dumaria, Series Incrassatae.Flavour and Fragrance J.9(3):113-7

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Micromeria teneriffae</i>	Leaf		20.0	-0.3001378339446704	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . <i>J. Ess. Oil Res.</i> , 3: 387-393.
<i>Citrus aurantium</i>	Leaf	1.0	20.0	-0.3001378339446704	--
<i>Eucalyptus desquamata</i>	Leaf	0.0	15.0	-0.3036837231167999	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Sympyomyrtus</i> , Section <i>Adnataria</i> . Flavour and Fragrance J. 10(6):359-364
<i>Salvia dorisiana</i>	Shoot	0.5	2.1	-0.30401558912117194	Tucker, A.O. & Maciarello, M.J. 1994. The Essential Oil of <i>Salvia dorisiana</i> Standley. <i>J. Ess. Oil Res.</i> 6: 97-8.
<i>Hyptis suaveolens</i>	Shoot		2.0	-0.30426951788587125	Mallavarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of <i>Hyptis suaveolens</i> (L.) Poit. <i>J. Ess. Oil Res.</i> 5: 321.
<i>Hyptis suaveolens</i>	Shoot		2.0	-0.30426951788587125	Mallavarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of <i>Hyptis suaveolens</i> (L.) Poit. <i>J. Ess. Oil Res.</i> 5: 321.
<i>Peumus boldus</i>	Leaf	0.0	12.0	-0.30581125662007763	--
<i>Satureja cilicica</i>	Shoot		1.0	-0.30680880553286366	Tumen, G. Baser, K.H.C. and Kirimer, N. 1993. The Essential Oil of <i>Satureja cilicica</i> P.H. Davis. <i>J. Ess. Oil Res.</i> 5: 547-548.
<i>Sideritis mugronensis</i>	Leaf	5.0	10.0	-0.3072296122889294	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of <i>Sideritis mugronensis</i> Flower and Leaf. <i>J. Ess. Oil Res.</i> , 3: 395-397.
<i>Trichostemma dichotomum</i>	Shoot		0.6	-0.3078245205916606	Tucker, A.O. and Maciarello, M.J. 1990. The Essential Oil of <i>Trichostemma dichotomum</i> . <i>J. Ess. Oil Res.</i> 2: 149-150.
<i>Teucrium oxylepis</i>	Shoot		0.27	-0.3086624855151682	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Teucrium pseudoscorodonia</i>	Shoot		0.24	-0.3087386641445779	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9.
<i>Teucrium oxylepis</i>	Shoot		0.22	-0.30878944989751766	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9.
<i>Teucrium asiaticum</i>	Shoot		0.17	-0.3089164142798673	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9.
<i>Teucrium salviastrum</i>	Shoot		0.11	-0.3090687715386869	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9.
<i>Eucalyptus moluccana</i>	Shoot		0.1	-0.3090941644151568	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus citriodora</i>	Shoot		0.1	-0.3090941644151568	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Nepeta racemosa</i>	Shoot		0.1	-0.3090941644151568	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of <i>Nepeta racemosa</i> Lam. <i>J. Ess. Oil Res.</i> 5: 215-7.
<i>Eucalyptus occidentalis</i>	Shoot		0.1	-0.3090941644151568	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus astringens</i>	Shoot		0.1	-0.3090941644151568	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus botryoides	Shoot		0.1	-0.3090941644151568	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Micromeria varia	Shoot		0.0	-0.30934809317985607	Pedro, L.G., et al. 1995. Composition of the Essential oil of Micromeria varia Benth. ssp. thymoides (Sol. ex Lowe) Perez var. thymoides, and endemic species of the Madeira Archipelago. flav. & Fragr. J. 10(3): 199-202.
Eucalyptus erythrandra	Leaf		7.0	-0.30935714579220713	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Sympyomyrtus,Section Dumaria, Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Abies alba	Leaf	5.0	7.0	-0.30935714579220713	--
Eucalyptus cuprea	Leaf		6.4	-0.3097826524928626	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Sassafras albidum	Leaf	1.0	6.1	-0.3099954058431905	--
Rosmarinus officinalis	Leaf		6.0	-0.310066323626633	Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaid, M.H. 1994. Analysis and Biological Activity of the Essential Oil of Rosmarinus officinalis L. from Egypt. Flavour and Fragrance J. 9: 29-33.
Rosmarinus officinalis	Leaf		6.0	-0.310066323626633	Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaid, M.H. 1994. Analysis and Biological Activity of the Essential Oil of Rosmarinus officinalis L. from Egypt. Flavour and Fragrance J. 9: 29-33.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus ceratocorys	Leaf		6.0	-0.310066323626633	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Sympyomyrtus,Section Dumaria, Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus intertexta	Leaf		5.5	-0.31042091254384596	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Cinnamomum camphora	Leaf		5.0	-0.3107755014610589	--
Eucalyptus largisparsa	Leaf		4.6	-0.31105917259482935	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus odorata	Leaf		4.4	-0.3112010081617144	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Petroselinum crispum	Leaf		4.3	-0.31127192594515707	--
Eucalyptus angulosa	Leaf		3.0	-0.3121938571299107	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Sympyomyrtus,Section Dumaria, Series Incrassatae.Flavour and Fragrance J.9(3):113-7

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Eucalyptus behriana</i>	Leaf		2.7	-0.31240661048023843	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Sympyomyrtus</i> , Section <i>Adnataria</i> . Flavour and Fragrance J. 10(6):359-364
<i>Elsholtzia polystachya</i>	Leaf		2.4	-0.3126193638305662	Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from <i>Elsholtzia polystachya</i> from Two Different Locations in India. <i>Planta Medica</i> 58: 376-379.
<i>Cleonia lusitanica</i>	Leaf	1.0	2.0	-0.31290303496433663	Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . <i>J. Ess. Oil Res.</i> , 3: 441-442.
<i>Eucalyptus populnea</i>	Leaf		1.8	-0.3130448705312218	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Sympyomyrtus</i> , Section <i>Adnataria</i> . Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus viridis</i>	Leaf	0.0	0.5	-0.31396680171597546	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Sympyomyrtus</i> , Section <i>Adnataria</i> . Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus ochrophloia</i>	Leaf		0.5	-0.31396680171597546	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Sympyomyrtus</i> , Section <i>Adnataria</i> . Flavour and Fragrance J. 10(6):359-364
<i>Lindera benzoin</i>	Leaf		0.1	-0.3142504728497459	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Salvia canariensis</i>	Leaf		0.1	-0.3142504728497459	Casnigueral,S., Iglesias,J., Vila,R., Virgili,A. and Ibanez,C.1994. The Essential Oil from Leaves of <i>Salvia canariensis</i> L. Flav. & Frag. J. 9:201-204. S. Canigueral, Facultat de Farmacia, Universitat de Barcelona, Ave.Diagonal 643,E-08028, Barcelone Spain
<i>Carthamus tinctorius</i>	Leaf		0.01	-0.3143142988548442	--
<i>Elsholtzia polystachya</i>	Leaf		0.0	-0.3143213906331884	Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from <i>Elsholtzia polystachya</i> from Two Different Locations in India. <i>Planta Medica</i> 58: 376-379.
<i>Eucalyptus brassiana</i>	Leaf		0.0	-0.3143213906331884	Singh, A. K., Gupta, K. C., & Brophy, J. J. 1991. Chemical Constituents of the Leaf Essential Oil of <i>Eucalyptus brassiana</i> S. T. Blake. <i>Journal of Essential Oil Res.</i> 3: 45-7.
<i>Thymus vulgaris</i>	Essential Oil		12500.0	-0.35109578631088695	--
<i>Illicium verum</i>	Fruit		435.0	-0.35734391683141264	Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Juniperus communis</i>	Fruit	26.0	300.0	-0.4254028775207352	--
<i>Origanum majorana</i>	Plant	18.0	103.0	-0.4516907541435066	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Myristica fragrans</i>	Seed	180.0	1440.0	-0.46169629087131775	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Tanacetum parthenium</i>	Essential Oil		6000.0	-0.4769076636125325	--
<i>Coleus barbatus</i>	Leaf Essent. Oil		94300.0	-0.49783406126367846	Jim Duke's personal files.
<i>Cymbopogon nardus</i>	Plant	24.0	96.0	-0.500476583525581	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Carum carvi</i>	Seed	3.0	1230.0	-0.5312072630899651	--
<i>Mentha pulegium</i>	Essential Oil		3000.0	-0.5349746839055997	--
<i>Cuminum cyminum</i>	Fruit		60.0	-0.5463965854128641	--
<i>Piper nigrum</i>	Fruit Essent. Oil	6800.0	36000.0	-0.5597624933275978	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Citrus aurantiifolia	Fruit		20.0	-0.5665622033948856	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Citrus sinensis	Fruit	12.0	14.0	-0.5695870460921888	--
Carum carvi	Fruit	3.0	6.0	-0.5736201696885931	--
Citrus reticulata	Fruit	5.0	6.0	-0.5736201696885931	--
Pimenta dioica	Fruit		6.0	-0.5736201696885931	--
Eucalyptus globulus	Essential Oil		1000.0	-0.5736860307676445	--
Citrus limon	Essential Oil		20.0	-0.5926545907300464	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Thymus capitatus	Plant	1.0	80.0	-0.611987050684608	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Umbellularia californica	Plant	20.0	80.0	-0.611987050684608	--
Rosmarinus officinalis	Shoot Essent. Oil		3800.0	-0.7008088432805002	--
Origanum vulgare	Shoot Essent. Oil		700.0	-0.7133860764771591	--
Mentha pulegium	Plant	30.0	60.0	-0.7513751346333919	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Lepechinia calycina	Plant	30.0	50.0	-0.8210691766077838	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Apium graveolens	Seed Essent. Oil		2000.0	-0.8573553114168811	--
Eucalyptus citriodora	Leaf Essent. Oil		1000.0	-0.8574494059207024	--
Rosmarinus officinalis	Leaf Essent. Oil		1000.0	-0.8574494059207024	--
Petroselinum crispum	Seed	0.6	210.0	-0.868831985294824	--
Cuminum cyminum	Seed		60.0	-0.9184826797367149	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Hyssopus officinalis	Flower	12.0	120.0	-1.0	Flavour and Fragrance Journal, 6: 69.
Zingiber officinale	Rhizome	3.0	200.0	-1.0	--
Lavandula latifolia	Plant	2.0	13.0	-1.0789371319130339	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Petroselinum crispum	Seed Essent. Oil		1000.0	-1.1132822700487859	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Hypericum perforatum</i>	Plant	0.3	5.4	-1.1319046038135718	--
<i>Porophyllum ruderale</i>	Plant	3.0	4.0	-1.1416617696899867	Loayza, I., de Groot, W., Lorenzo, D. et al. 1999. Composition of the essential oil of <i>Porophyllum ruderale</i> (Jacq.) Cass. from Bolivia. <i>Flav. &amp; Fragr.</i> J. 14: 393-8.
<i>Petroselinum crispum</i>	Fruit Essent. Oil	3000.0	7300.0	-1.3339882069903475	--
<i>Cinnamomum verum</i>	Root Bark				--
<i>Cinnamomum verum</i>	Bark Essent. Oil				--
<i>Cinnamomum verum</i>	Stem Bark				--
<i>Piper cubeba</i>	Plant				--
<i>Gossypium sp</i>	Plant				--
<i>Hyssopus officinalis</i>	Essential Oil				--
<i>Coriandrum sativum</i>	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum curvipes</i>	Shoot				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Tsuga canadensis</i>	Branches				--
<i>Angelica archangelica</i>	Fruit				--
<i>Angelica archangelica</i>	Root Essent. Oil		225000.0		--
<i>Angelica archangelica</i>	Seed Essent. Oil				--
<i>Angelica archangelica</i>	Root				--
<i>Trachyspermum ammi</i>	Plant				--
<i>Pelargonium graveolens</i>	Essential Oil				--
<i>Saussurea lappa</i>	Root Essent. Oil				--
<i>Cinnamomum verum</i>	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pinus sylvestris</i>	Leaf				Guenther, E., <i>The Essential Oils</i> , 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Agathosma betulina</i>	Leaf Essent. Oil				--
<i>Piper auritum</i>	Leaf				Tramil

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Teucrium scorodonia</i>	Shoot				Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9.
<i>Artemisia dracunculus</i>	Plant				--
<i>Salvia officinalis</i>	Essential Oil				--
<i>Pastinaca sativa</i>	Root				--
<i>Elettaria cardamomum</i>	Fruit				Duke, J. A. and duCellier, J. L. 1993. <i>CRC Handbook of Alternative Cash Crops</i> . CRC Press, Boca Raton, FL 33431. 536 pp. US \$312.50.
<i>Allium sativum</i> var. <i>sativum</i>	Bulb				Williamson, E. M. and Evans, F. J. <i>Potter's New Cyclopaedia of Botanical Drugs and Preparations</i> , Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
<i>Pimenta dioica</i>	Leaf Essent. Oil				--
<i>Panax ginseng</i>	Root				--
<i>Panax ginseng</i>	Root Essent. Oil				--
<i>Daucus carota</i>	Root				--
<i>Piper cubeba</i>	Fruit Essent. Oil				--
<i>Citrus limon</i>	Petiole		2.0		--
<i>Micromeria varia</i>	Shoot	0.0			--
<i>Satureja obovata</i>	Leaf				Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of <i>Satureja obovata</i> . <i>Phytochemistry</i> 35(1): 83.
<i>Piper cubeba</i>	Fruit				Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Eucalyptus</i> sp	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
<i>Carthamus tinctorius</i>	Bud		0.01		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Eucalyptus globulus</i>	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Juniperus communis</i>	Essential Oil				--
<i>Citrus paradisi</i>	Pericarp	1.0	2.0		--
<i>Achillea millefolium</i>	Leaf				--
<i>Abies balsamea</i>	Plant				--
<i>Nepeta racemosa</i>	Shoot				Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of <i>Nepeta racemosa</i> Lam. J. Ess. Oil Res. 5: 215-7.
<i>Carica papaya</i>	Fruit				--
<i>Perilla frutescens</i>	Shoot Essent. Oil				Nguyen, X. D., La, D. M., Lu'u, D. C., Leclercq, P. A. 1995. Essential Oil Constituents from the Aerial Parts of <i>Perilla frutescens</i> (L.) Britton. J. Essent. Oil Res., 7(4): 429-432.
<i>Boswellia serrata</i>	Resin, Exudate, Sap				Sabinsa: A series of well documented proprietary PR booklets, e.g. Sabinsa Corps. 1998. Bronchial Asthma - Its etiology and control with traditional herbal extracts. Sabinsa Corporation. Piscataway, NJ. 49 pp.
<i>Mangifera indica</i>	Flower				--
<i>Anethum graveolens</i>	Essential Oil				--
<i>Salvia officinalis</i>	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
<i>Anethum graveolens</i>	Seed Essent. Oil				--
<i>Pinus sylvestris</i>	Leaf Essent. Oil				--
<i>Anethum graveolens</i>	Root Essent. Oil				--
<i>Pinus sylvestris</i>	Essential Oil				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Boswellia sacra</i>	Resin, Exudate, Sap		0.6		Chiavari, G., Galletti, G. C., Piccaglia, R., Mohamud, M. A. 1991. Differentiation Between Resins <i>Boswellia carterii</i> and <i>Boswellia frereana</i> (Frankincense) of Somali Origin. <i>J. Essent. Oil Res.</i> 3 (3):185-186.
<i>Salvia officinalis</i>	Leaf Essent. Oil				--
<i>Pinus mugo</i>	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Levisticum officinale</i>	Root	1.0	10.0		--
<i>Piper nigrum</i>	Seed Essent. Oil				--
<i>Curcuma xanthorrhiza</i>	Rhizome				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Myristica fragrans</i>	Leaf Essent. Oil				--
<i>Sassafras albidum</i>	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Myrciaria dubia</i>	Fruit				--
<i>Capsicum annuum</i>	Fruit				--
<i>Artemisia dracunculus</i>	Essential Oil				--
<i>Coriandrum sativum</i>	Essential Oil				--
<i>Ferula assa-foetida</i>	Essential Oil				--
<i>Artemisia dracunculus</i>	Leaf Essent. Oil				--
<i>Zingiber officinale</i>	Rhizome Essent. Oil		4000.0		--
<i>Laurus nobilis</i>	Leaf Essent. Oil				--
<i>Capsicum frutescens</i>	Fruit				--
<i>Rosmarinus officinalis</i>	Resin, Exudate, Sap				--
<i>Coleus barbatus</i>	Stem Essent. Oil		94300.0		Jim Duke's personal files.
<i>Panax ginseng</i>	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cinnamomum verum	Leaf Essent. Oil				--